

PCT

P26391.A01

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Kiyotaka KOBAYASHI et al.

Group Art Unit : Not Yet Assigned

Appl. No. : ✓ 10/516,936 (U.S. National Stage  
of PCT/2003/015057)

Examiner : Not Yet Assigned

I.A. Filed : November 23, 2003

For : COMMUNICATION METHOD, TRANSMISSION APPARATUS AND  
RECEPTION APPARATUS

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop AMENDMENT  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and §§ 1.97-1.98, Applicants hereby bring the following information to the attention of the Examiner in charge of the above-identified application, which includes information cited and discussed in the specification and the International Search Report that issued in connection with International Patent Application No. PCT/JP2003/015057, of which the present application is the U.S. National Stage Application. Copies of the International Search Report (in English and Japanese) were enclosed with the papers when entering the U.S. National Stage on December 14, 2004. The Examiner is invited to review these materials to inspect the relevance indicated during international examination with respect to the documents cited therein.

The PTO did not receive the following  
listed Items(s) FORs / NPLs

(1) "Space-Time Block Codes from Orthogonal Designs", IEEE Transactions of Information Theory, Vol. 45, No. 5, July 1999, pp. 1456-1467. Applicants note that this document is cited on pages 46 and 47 of the specification of the present application;

(2) "Space-Time Block Coding for Wireless Communications: Performance Results", IEEE Journal on Selected Areas in Communications, Vol. 17, No. 3, March 1999, pp. 451-460. Applicants note that this document is cited on page 49 of the specification of the present application; and

(3) Japanese Laid-Open Patent Publication No. 2001-237751, together with an English language Abstract of the same.

The following is a list of the documents cited in the International Search Report:

(4) An article entitled "Guard Interval-cho Tekio Kahengata PDM-COFDM Hoshiki no Kento" by T. SUGIYAMA et al., Information and Communication Engineers 2002, March 27-30, pp. 616;

(5) An article entitled "Jikukan Block Fugo Gyoretsu O Mochiita Tekio Hencho" by T. ARAIDA et al., Information and Communication Engineers Gijutsu Kenkyu Hokoku, February 27, 2002, Vol. 101, No. 676, pp. 31-36;

(6) Japanese Laid-Open Patent Publication No. 2003-318853, together with an English language Abstract of the same;

(7) Japanese Laid-Open Patent Publication No. 2003-244045, together with an English language Abstract of the same; and

(8) An article entitled "MIMO System in Okeru Koyuchi o Mochiita BER Tokusei no Kaiseki" by Y. MURAKAMI et al., Information and Communication Engineers Gijutsu Kenkyu Hokoku, March 19, 2003, Vol. 102, No. 745, pp. 167-172.

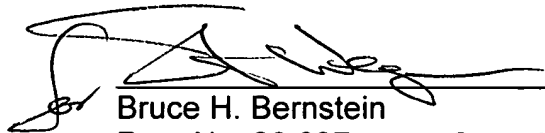
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Copies of documents (1)-(3) are enclosed together with a duly completed Form PTO-1449. Copies of documents (4)-(8) should have been forwarded by the International Bureau. If copies were not forwarded by the International Bureau, Applicants will provide copies upon request by the Examiner. Documents (4)-(8) are also listed on the enclosed Form PTO-1449. The Examiner is accordingly requested to consider each of these documents, and to make them of record in this application by initialing in the appropriate spaces on the Form PTO-1449. Applicants respectfully request that the Examiner include a copy of the initialed Form PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

Applicants note that an Office Action on the merits has not issued in the present application, and thus no fee is believed necessary to ensure consideration of the submitted material.

Should there be any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,  
Kiyotaka KOBAYASHI et al.



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FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P26391Application No.  
10/516,936INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)Applicant  
Kiyotaka KOBAYASHI et al.Filing Date  
November 23, 2003Group  
Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	2001	- 2 3 7 7 5 1	08/31/01	JAPAN			
	2003	- 3 1 8 8 5 3	11/07/03	JAPAN			
	2003	- 2 4 4 0 4 5	08/29/03	JAPAN			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	"Space-Time Block Codes from Orthogonal Designs", IEEE Transactions of Information Theory, Vol. 45, No. 5, July 1999, pp. 1456-1467.
	2	"Space-Time Block Coding for Wireless Communications: Performance Results", IEEE Journal on Selected Areas in Communications, Vol. 17, No. 3, March 1999, pp. 451-460.
	3	An article entitled "Guard Interval-cho Tekio Kahengata PDM-COFDM Hoshiki no Kento" by T. SUGIYAMA et al., Information and Communication Engineers 2002, March 27-30, pp. 616.
	4	An article entitled "Jikukan Block Fugo Gyoretsu O Mochiita Tekio Hencho" by T. ARAIDA et al., Information and Communication Engineers Gijutsu Kenkyu Hokoku, February 27, 2002, Vol. 101, No. 676, pp. 31-36.
	5	An article entitled "MIMO System in Okeru Koyuchi o Mochiita BER Tokusei no Kaiseki" by Y. MURAKAMI et al., Information and Communication Engineers Gijutsu Kenkyu Hokoku, March 19, 2003, Vol. 102, No. 745, pp. 167-172.
	6	English language Abstract of JP 2001-237751.
	7	English language Abstract of JP 2003-318853.
	8	English language Abstract of JP 2003-244045.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.